



Attorney Docket # 044574-5061

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application:

John CARLSON *et al.*

Application No. 09/491,577

Filed: January 25, 2000

For: *DROSOPHILA* ODORANT RECEPTORS (Amended)

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)  
) Group Art Unit: 1646  
)  
) Examiner: Joseph Murphy  
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)

**AMENDMENT AND RESPONSE UNDER 37 C.F.R. 1.116**

This Amendment is filed in response to the Office Action dated March 12, 2002 (Paper No. 14).

Please amend this application as follows:

**In the claims:**

Please cancel claims 37-42.

Please replace claims 27, 43 and 44 with the following amended claims 27, 43 and 44:

27. (Amended) An isolated nucleic acid molecule that encodes the amino acid sequence of a *Drosophila* Odorant Receptor protein or fragment thereof, wherein the nucleic acid molecule comprises:

(i) nucleotides of SEQ ID NO: 31 which encode the amino acids which comprise the third extracellular domain;

(ii) nucleotides of SEQ ID NO: 31 which encode the amino acids which comprise the fourth extracellular domain; and

(iii) nucleotides of SEQ ID NO: 31 which encode the amino acids which comprise the fourth intracellular domain;

wherein the nucleic acid molecule encodes a protein or fragment thereof which has odorant receptor activity.

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